# CENTER DRECTIVES MANAGEMENT SYSTEM ELECTRONIC SOURCE DOCUMENT

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# Chapter 21 - Endangered and Threatened Species (REDACTED)

# 21.1 Applicability

This instruction applies to all civil servants, contractors employees, and tenant personnel at NASA Ames Research Center (Ames), Moffett Federal Airfield (MFA), and Crows Landing Flight Facility.

# 21.2 Purpose

Because of its proximity to San Francisco Bay, the availability of undeveloped wetlands, and large areas of grassland, Moffett Field supports three distinct habitats: urban lands, grasslands, and wetlands. These habitats support a diverse population of plant and animal species, of which 30 are endangered, threatened, or rare. Moffett Field supports 50 burrowing owls, the largest population of the species in Santa Clara County. Congress has recognized that species have aesthetic, ecological, educational, and scientific value to the nation and its people. It is the policy of Congress that all Federal agencies seek to conserve various species of fish or wildlife and plants that face extinction. Federal agencies are responsible to ensure that any action authorized, funded, or carried out is not likely to jeopardize the continued existence of any endangered or threatened species, or result in the destruction or adverse modification of a critical habitat.

# 21.3 Policy

It is the policy of the Ames Research Center to ensure that any action authorized, funded, or carried out is not likely to jeopardize the continued existence of any endangered or threatened species, or result in the destruction or adverse modification of a critical habitat. Ames will comply with all applicable regulations pertaining to endangered and threatened species.

# 21.4 Authority

- 1. Endangered Species Act (ESA) of 1973, as amended.
- 2. 50 CFR 17.
- 3. Migratory Bird Treaty Act of 1918, as amended.
- 4. California Fish and Game Code 2050-98.
- 5. California Native Plant Protection Act of 1977, as amended.
- 6. California Endangered Species Act of 1984, as amended.
- 7. Executive Order 13112, Invasive Species
- 8. Executive Order 13186, Responsibilities of Federal Agencies To Protect Migraory Birds

# 21.5 Responsibilities

## 21.5.1 Environmental Services Office, Code QE (Environmental Office)

- 1. Maintain and review the Federal and state of California endangered or threatened species list to determine if such species occur at Ames. Make appropriate conservation and protection arrangements for habitat protection, as required.
- 2. Ensure that periodic surveys are conducted onsite to determine the presence of such listed species.
- 3. Ensure that burrowing owl monitoring activities are conducted on an ongoing basis and provide guidance to line management.
- 4. Assist in the relocation efforts for burrowing owls.

- 5. Maintain an accurate inventory of all Ames habitat areas that may be affected by ongoing and planned operations.
- 6. Validate the need and prepare permit applications.
- 7. Review all construction and maintenance projects to ensure compliance with the Endangered Species Act (ESA) and related laws and regulations.
- 8. Oversee technical biologic studies on an as-needed, ongoing basis.
- 9. Act as a technical point of contact for all regulatory agency interface and correspondence.
- 10. Mark radius around burrows that shall not be disturbed.

## 21.5.2 Facilities Maintenance, Code JFP

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# 21.5.3 Facilities Engineering, Code FEF, and Facilities Planning, Code JFF

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## 21.6 Definitions

## 21.6.1 California Species of Special Concern

State species that are threatened and may warrant placement on the State Endangered Species list.

## 21.6.2 Conserve

To use all necessary methods and procedures to bring any endangered or threatened species to the point at which the measures under the Endangered Species Act are no longer necessary (16 USC 1531-1544).

## 21.6.3 Critical Habitats

Critical habitats in accordance with the ESA are areas that include physical (i.e., cover or vegetation for nesting or protection) or biological (i.e., food sources) features that are essential to the conservation of the species and that may require special management considerations or protection.

## 21.6.4 Endangered Species

Any species that is in danger of extinction throughout all or a significant portion of its range.

## 21.6.5 Endangered Species Act (ESA)

Provides protection to species listed on the Federal Endangered Species List. Directs Federal agencies to consult with the U.S. Fish and Wildlife Service for activities potentially affecting endangered species.

#### 21.6.6 Fish and Wildlife

Any species classified within the animal kingdom.

#### 21.6.7 Extinct

No longer in existence.

## 21.6.7 Migratory Bird Treaty Act of 1918

Makes it unlawful to disturb any migratory bird or its habitat, especially during the nesting season (February through September). It contains specific provisions against capturing, harassing, or in any way harming migratory birds.

#### 21.6.8 Plant

Any member of the plant kingdom.

## 21.6.9 Section 7 of the ESA

Section 7 of the Endangered Species Act establishes a review and mitigation process that a Federal Agency must undertake prior to implementing an action that may result in a "take" of a listed species.

# **21.6.10 Species**

Any subspecies of fish, wildlife, or plants, and any distinct population segment of any species of vertebrate fish or wildlife that interbreeds when mature.

#### 21.6.11 Take

To harass, harm, shoot, wound, trap, collect, hunt, pursue, catch, capture, or kill a species.

## 21.6.12 Threatened Species

A threatened species is one that is likely to become an endangered species within the foreseeable future because of a decline in its numbers throughout all or a significant portion of its range or habitat.

## **21.6.13 Wetlands**

Wetlands are areas subject to hydrologic inundation and are characterized by hydric soils and hydrophytic vegetation, as defined by the U.S. Army Corps of Engineers. These areas may be subject to seasonal inundation only. Wetlands generally include marshes, sloughs, potholes, river overflows, meadows, and natural ponds.

# 21.7 Species Lists

Three separate lists address sensitive plant species in California: a Federal (USFWS) list, a state (California Department of Fish and Game) list, and a California Native Plant Society (CNPS) list. Sensitive animal species in California are addressed by a Federal and a state list. Listing determinations are based on the best scientific and commercial data available.

Federally listed endangered and threatened species are given in 50 CFR 17.11 (animals) and 50 CFR 17.12 (plants). State-listed species are given in the California Code of Regulations, Title 14. The CNPS listing is published in the CNPS Inventory of Rare and Endangered Vascular Plants of California. The State of California assigns "species of special concern" (CSC) status to rare species that may warrant designation as endangered or threatened. CSC species are afforded special protective status under the California Environmental Quality Act (CEQA).

Among the CNPS designations for rare plant species are "1A" (presumed extinct in California), "1B" (rare, threatened, or endangered in California and elsewhere), and "2" (rare, threatened, or endangered in California but more common elsewhere). All three designations meet the definitions of Section 1901, Chapter 10 (Native Plant Protection Act) or Sections 2062 and 2067 (California Endangered Species Act (CESA)) of the California Department of Fish and Game Code and, therefore, are granted special protective status under CEQA.

# 21.7.1 Endangered, Threatened, and Rare Plants near Moffett Field

No endangered, threatened, or rare plant species are known to occur at Moffett Field. However, Moffett Field does contain a potentially suitable habitat for 12 sensitive species (see table).

Plant species		Status			
Common name	Scientific name	Federal*	State*	CNPS*	
Robust spineflower	Chorizanthe robusta robusta	Endangered		1B	
California seablight	Suaeda californica	Endangered		1B	
Hickman's cinquefoil	Potentilla hickmanii	Proposed endangered	Endangered	1B	
Point Reyes meadowfoam	Limnanthes douglasii sulphurea		Endangered	1B	
Mason's lilaeopsis	Lilaeopsis masonii		Rare	1B	
Congdon's tarplant	Hemizonia parryi congdonii			1B	
Delta tule pea	Lathyrus jepsonii jepsonii			1B	
Ferris's milk-vetch	Astragalus tener ferrisiae			1B	
Hairy gumweed	Grindelia hirsutula hirsutula			1B	
Maple-leaved checkerbloom	Sidalcea malachroides			1B	
Point Reyes bird's beak	Cordylanthus maritimus palustris			1B	
Slender-leaved pondweed	Potamogeton filiformis			2	

<sup>\*</sup>The Federal, state, and CNPS lists are updated on a regular basis.

# 21.7.2 Endangered, Threatened, and Rare Animal Species at Moffett Field

The following 18 animal species are known to occur at Moffett Field:

Animal species		Status		
Common name	Scientific name	Federal*	State*	
Salt marsh harvest mouse	Reithrodontonys raviventris	Endangered	Endangered	
California least tern	Sterna antillarum browni	Endangered	Endangered	
California clapper rail	Laterallus longirostris obsoletus	Endangered	Endangered	
California brown pelican	Pelecanus occidentalis californicus	Endangered	Endangered	
American peregrine falcon	Falco peregrinus anatum	Endangered	Endangered	
Western snowy plover	Charadrius alexandrinus nivosus	Threatened		
Bank swallow	Riparia riparia		Threatened	
American white pelican	Pelecanue erthrorhynchos		CSC*	
Black skimmer	Rhyncops niger		CSC	
California gull	Larus californicus		CSC	
California horned lark	Eremophila alpestris actia		CSC	
Double-crested cormorant	Phalacrocorax auritus		CSC	
Golden eagle	Aquila chrysaetos		CSC	
Loggerhead shrike	Lanius Iudovicianus		CSC	

Animal species		Sta	Status	
Common name	Scientific name	Federal*	State*	
Northern harrier	Circus cyaneus		CSC	
White-tailed Kite	Elanus leucurus		Fully Protected	
Saltmarsh common yellowthroat	Geothlypis trichas sinuosa		CSC	
Western burrowing owl	Athene cunicularia hypugaea		CSC	

<sup>\*</sup>The Federal, state, and CNPS lists are updated on a regular basis.

# 21.8 Other Related Programs

The following programs discussed in this Environmental Handbook, or otherwise implemented at Ames, are applicable to endangered and threatened species:

- 1. Chapter 20 Flood Plains and Wetlands Management
- 2. Chapter 22 NEPA Management

## 21.9 Metrics

- % Compliance with federal, state, endangered species act/ regulations. Goal: 100% compliance
- % Projects impacting endangered and threatened species with appropriate permits. Goal: 100% compliance

# 21.10 Sources of Additional Information or Assistance

- 1. Environmental Office (Code QE, REDACTED)
- 2. Ames Environmental Resources Document

REDACTED

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